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(54) METHOD FOR VAPOR PHASE ALUMINIDING  
OF GAS TURBINE BLADE PARTIALLY  
MASKED WITH MASKING ENCLOSURE

(57) Abstract:

PROBLEM TO BE SOLVED: To selectively protect one portion of a gas turbine blade by a protective coating.

SOLUTION: The gas turbine blade 20 to be protected by aluminide coating is placed within the masking enclosure 50 including an airfoil enclosure 52 preventing deposition on an airfoil 22 of the gas turbine blade 20, and a dovetail enclosure 54 preventing deposition on a dovetail 26 of the gas turbine blade 20. An assembly is vapor phase aluminided such that aluminum is deposited on an exposed portion 92 of the gas turbine blade 20 that is not within the masking enclosure 50.

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